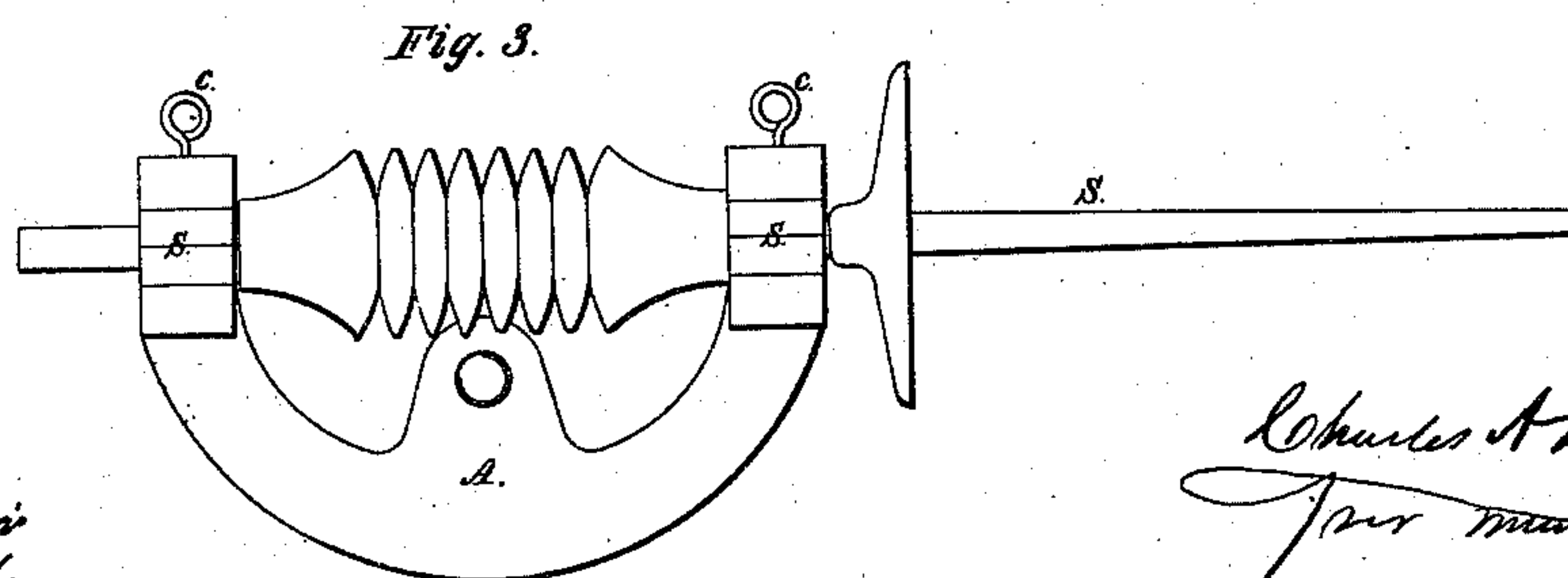
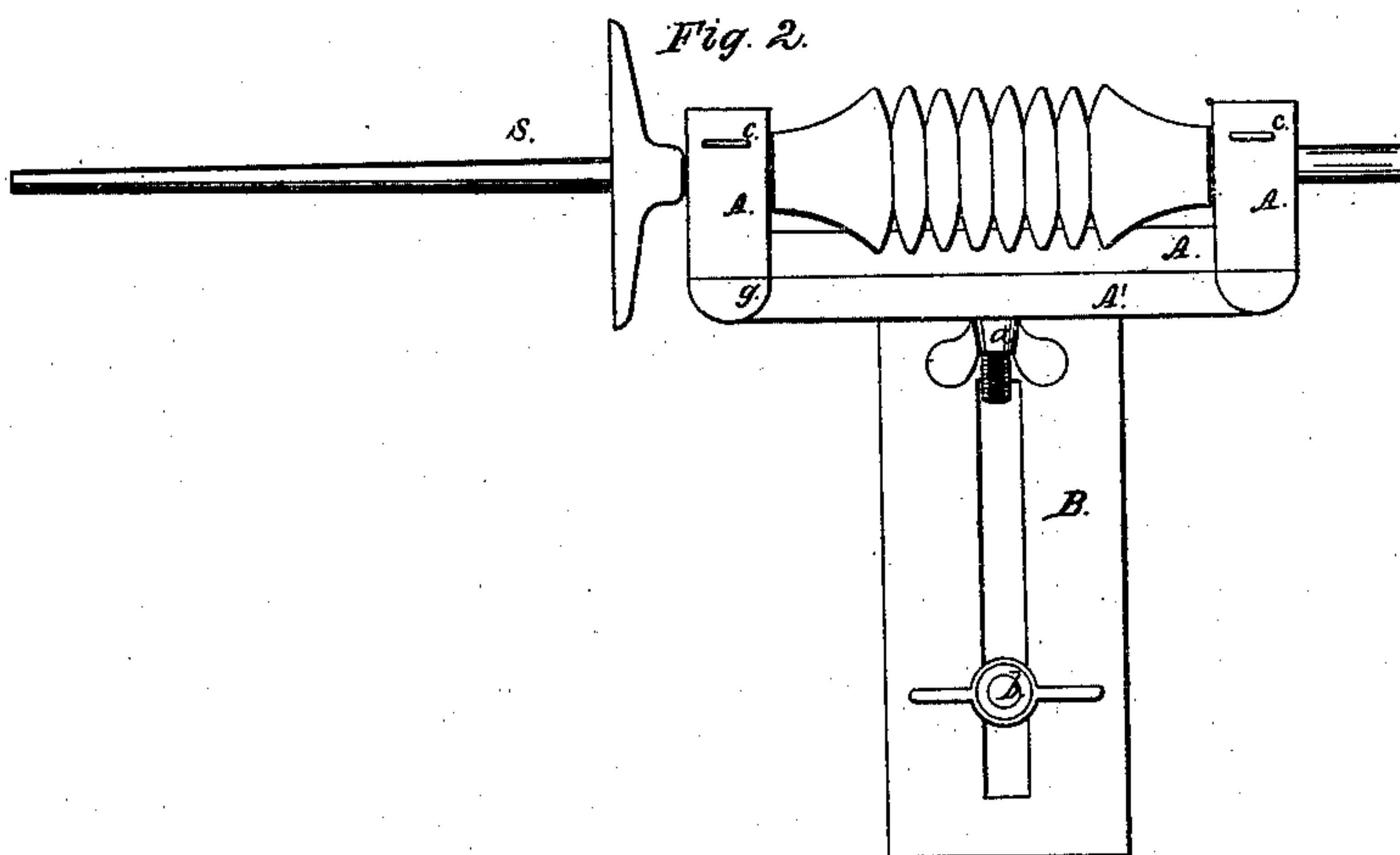
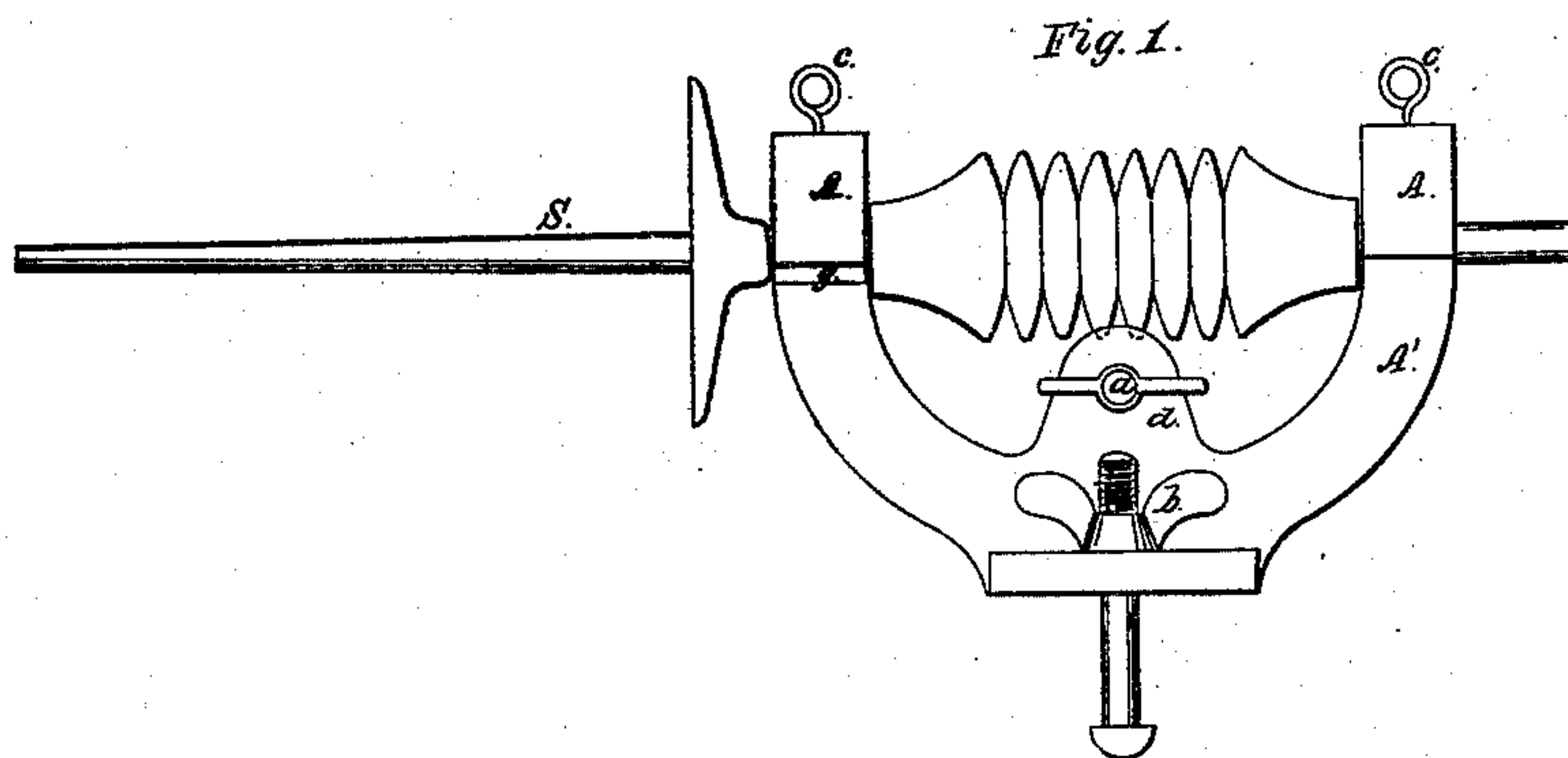


*C. A. Moorehead.*  
*Domestic Spinning Mach.*

*No 43,327.*

*Patented Jun. 28, 1864.*



*Witnesses.*  
*Henry Moore*  
*E. L. Topliff*

*Inventor.*  
*Charles A. Moorehead*  
*per [signature]*  
*Attorneys*

# UNITED STATES PATENT OFFICE.

CHARLES A. MOOREHEAD, OF QUINCY, ILLINOIS.

## IMPROVEMENT IN HAND SPINNING-MACHINES.

Specification forming part of Letters Patent No. 43,327, dated June 28, 1864.

*To all whom it may concern:*

Be it known that I, CHARLES A. MOOREHEAD, of Quincy, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Spinning Machinery; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of a spindle and frame with my improvement; Fig. 2, a plan view of the same; Fig. 3, a side view of the same in reverse, to show the removable boxes.

Similar letters of reference indicate like parts.

This invention has for its object to remove certain difficulties and inconveniences which occur in the use of "Current's Spinning-Wheel" and other spinners for domestic use. In reeling on these machines it is usually necessary to elevate the spindle on account of the low position of the wheel, which can only be done by removing the carriage from the railing, and thereby oftentimes throwing off the bands. Another difficulty which occurs in these machines arises from the necessity of sometimes crossing the small band which drives the spindle. This is usually done by cutting it to enable it to be crossed, and then sewing it together again.

My first improvement consists in so connecting the spindle-frame to its carriage as that it can be elevated at pleasure; and my second improvement consists in enabling the operator to slip the boxes in which the spindle runs from out the frame, and thus be able to remove the spindle and cross the band without cutting it.

S represents the spindle, running in metal boxes s, secured in the ends of the frame A by means of pins c. The upright part of frame A in this example of my invention is crescent-shaped, and is attached to the carriage by means of a screw-bolt and nut, a. The carriage B is secured to the railing (not shown) by means of the screw-bolt and nut b. The inner end of the carriage is also made crescent-shaped in

this illustration of my invention, with a boss or hub, d, on its inner circumference to receive the screw-bolt a. This part of the carriage is marked A', and it is made to set snugly against the inner face of the frame A. The latter has also a hub or boss answering to the boss d on the carriage, and receiving the end of the screw-bolt to enable the frame and the carriage to be firmly secured to each other. A stop, g, is made to project from the inner face of one of the limbs of the frame A, to limit the extent of its motion by abutting against the upper end of one of the limbs of the part A' of the carriage.

The operation of my apparatus with my improvements is as follows: When it is required to elevate the spindle, the nut of the screw-bolt a is loosened, and the frame A is then to be revolved around it as a center until the spindle has reached the desired elevation, when it is securely fastened in that position by tightening the nut, to enable the yarn to be reeled off.

When in the operation of spinning it becomes necessary to cross the band which drives the spindle, the pins c are to be removed, thus enabling the operator to withdraw the boxes which bear the spindle, and thus enable the operator to cross the band without cutting it.

It will be observed that the securing-bolt upon which the frame is made to revolve is fixed nearly in the same plane with that of the axial center of the spindle.

Having thus described my invention, I claim as new and desire to secure by Letters Patent, in hand spinning-wheels—

1. Elevating the spindle, for reeling off the yarn or for other purposes, by causing the spindle-frame A to revolve upon its carriage without disconnecting the spinning apparatus, substantially as described.

2. Making the journal-boxes of the spindle removable, in order to withdraw the spindle from its frame, and thereby be able to cross the driving-band, substantially as described.

CHAS. A. MOOREHEAD.

Witnesses:

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